

## Claims

What is claimed is:

A Multiple Layered Highly Damped Vibration and Shock Damper with Low Outgassing

Properties comprising:

1) A multiple of highly damped layers and low outgassing layers;

where said highly damped layers are completely disposed within said low outgassing layers;

where each of said highly damped layers and said low outgassing layers have an interior and exterior surface with the exception of the innermost highly damped layer which only has an external surface;

where the said layers are oriented in such a matter that the exterior surface of a given layer is connected to the interior surface of an adjoining layer.

2) A Multiple Layered Highly Damped Vibration and Shock Damper with Low

Outgassing Properties as is claim 1 wherein the highly damped layer is made of a low modulus elastomeric polymer.

3) A Multiple Layered Highly Damped Vibration and Shock Damper with Low

Outgassing Properties as is claim 1 wherein the low outgassing layer is made of a fluorinated polymer.

